

Classification of Spatial Light Modulators

Spatial Light Modulators (SLMs) are quasi-planar devices, allowing for the modulation of the amplitude, phase and polarization, or a combination of these parameters of an incident light beam according to ...

This page covers the basics of Spatial Light Modulators (SLMs) and lists some vendors. It also describes the two main types of SLMs: optically addressed and electrically addressed.

SLMs function by dynamically altering the properties of light through a matrix of pixels. These pixels are controlled electrically or optically to influence how light is transmitted or reflected. The modulation ...

Meadowlark Optics award-winning Spatial Light Modulators (SLMs) provide precision retardance control for spatially varying phase or amplitude requirements. Our SLMs consist of liquid crystal (LC) pixels, ...

Key themes include the use of SLMs in optical imaging, holography, adaptive optics, and telecommunications, highlighting their role in enhancing image quality and enabling advanced ...

A spatial light modulator (SLM) is a pixellated liquid crystal device that can individually control the phase value of each pixel. It imposes spatially varying modulation onto an incident beam, allowing for the ...

A spatial light modulator (SLM) is a device that can control the intensity, phase, or polarization of light in a spatially varying manner. A simple example is an overhead projector transparency. Usually when ...

Modulation Scheme: The three characteristics of the input light that can be modulated are its amplitude, phase and polarization. The SLMs available differ in the way they modulate the above ...

In order to realize such devices, our group develops new approaches to dynamically control the individual response of these nanoantennas (see Figure 2), as to create a novel class of Spatial Light ...

Here we introduce a new class of spatial light modulator that provides both 2D pixel geometry and high speed. The device operates by encoding spatial information in frequency bins via a broadband ...

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